



US009856672B2

(12) **United States Patent**
Allen et al.

(10) **Patent No.:** **US 9,856,672 B2**
(45) **Date of Patent:** **Jan. 2, 2018**

(54) **PRIVACY TENT**

(71) Applicant: **The Board of Trustees of the University of Alabama**, Tuscaloosa, AL (US)

(72) Inventors: **Jeff Allen**, Northport, AL (US); **Thomas Patrick Powell**, Pelham, AL (US); **Jared Porteous**, Tuscaloosa, AL (US); **Jared Cassity**, Tuscaloosa, AL (US); **Christian Parris**, Birmingham, AL (US)

(73) Assignee: **The Board of Trustees of the University of Alabama**, Tuscaloosa, AL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/263,099**

(22) Filed: **Sep. 12, 2016**

(65) **Prior Publication Data**

US 2017/0073994 A1 Mar. 16, 2017

Related U.S. Application Data

(60) Provisional application No. 62/217,408, filed on Sep. 11, 2015.

(51) **Int. Cl.**
E04H 15/38 (2006.01)
E04H 15/48 (2006.01)

(52) **U.S. Cl.**
CPC **E04H 15/38** (2013.01); **E04H 15/48** (2013.01)

(58) **Field of Classification Search**
CPC E04H 15/322; E04H 15/38; E04H 15/48
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,819,490 A * 8/1931 Weiss E04H 15/38 135/132
2,856,942 A * 10/1958 Scott E04H 6/04 135/117

(Continued)

FOREIGN PATENT DOCUMENTS

WO 03069098 8/2003

OTHER PUBLICATIONS

Retractable Motorcycle Covers, available at <http://www.speedwayselters.com>, accessed on Mar. 31, 2016, 5 pages.

(Continued)

Primary Examiner — David R Dunn

Assistant Examiner — Danielle Jackson

(74) *Attorney, Agent, or Firm* — Meunier Carlin & Curfman LLC

(57) **ABSTRACT**

Various implementations include a fully collapsible and portable tent. For example, in various implementations, the tent includes a frame assembly that includes two or more frame members and two hubs spaced apart from each other. Ends of the frame members are coupled to the hubs. At least one of the frame members is pivotably coupled to the hubs via pivotable brackets. The pivotably coupled frame member pivot about a first axis extending through each end of the pivotably coupled frame member and the respective pivotable bracket, and the pivotable brackets pivot about a second axis extending through the pivotable bracket and the respective hub, wherein the first axis is spaced apart from the first axis. The pivotable brackets allow the tent to be moved between the collapsed and expanded positions quickly and with minimal effort.

15 Claims, 23 Drawing Sheets

